

APEEJAY SCHOOL, SAKET
HOLIDAY HOMEWORK
2019-20
CLASS X

ENGLISH

WRITING SKILLS TASKS:

Formal Letters-

Q.1.- There is an increasing dependence of students on coaching institutes and tuition centres. Write a letter to the Editor of The Hindu, in 120-150 words, discussing about the mushrooming of these coaching centres and giving reasons for this over dependence. Also suggest a few measures that can be taken to check this trend. You are Arun/ Aruna, F-114, Mall Road, Agra.

Q.2.- Write a letter of Inquiry to St.Stephen's College, in 120-150 words, regarding the undergraduate courses being offered by the college. Also enquire about the scholarship schemes and admission procedure. You are Madhav/ Madhu, a student of Class-X.

Q.3.- You are Manav/ Manvi, a student of ABC Public School and the member of the School Canteen Supervision Committee, constituted by the Principal. Write a letter of complaint to the Principal of your school regarding the poor hygienic conditions in the school canteen.

Q4.- You are the Purchase Manager of XYZ Public School, Ranchi. You would like to place an order for some sports equipments for your school. Write a letter to ABC Sports Ltd. for placing the order. (WL: 120-150 words)

Q.5.- Write a story in 200-250 words based on the input given below:

- (a) The stadium looked festive- match going on- all excited- suddenly.....

Or

- (b) He was hungry and tired- could do anything for food- but didn't know how to get food, so

[Apjs WK3 Class X](#) Worksheet-3 is available on this link.

हिंदी

1 संचयन पुस्तक की सपनों के से दिन कहानी पढ़कर निम्नलिखित प्रश्नों के उत्तर नोटबुक में लिखिए।

-स्काउट परेड करते समय लेखक अपने को महत्वपूर्ण 'आदमी' फौजी जवान क्यों समझने लगता था?

-विद्यार्थियों को अनुशासन में रखने के लिए पाठ में अपनाई गई युक्तियाँ और वर्तमान में स्वीकृत मान्यताओं के संबंध में अपने विचार प्रकट कीजिए।

-लेखक अपने छात्र जीवन में स्कूल से छुट्टियों में मिले काम को पूरा करने के लिए क्या-क्या योजनाएँ बनाया करता था और उसे पूरा न कर पाने की स्थिति में किसकी भाँति 'बहादुर' बनने की कल्पना किया करता था?

-प्रायः अभिभावक बच्चों को खेल-कूद में ज्यादा रुचि लेने पर रोकते हैं और समय बरबाद न करने की नसीहत देते हैं। बताइए:

खेल आपके लिए क्यों जरूरी है?

-पाठ में वर्णित घटनाओं के आधार पर पीटी सर की चारित्रिक विशेषताओं पर प्रकाश डालिए।
2 'इंटरनेट बना दिमागी बुखार'विषय पर शिक्षक और छात्र के बीच लगभग 50 शब्दों में संवाद लिखिए।

3 नव विकास विद्यालय ,दिल्ली की कक्षा दसवीं की छात्रा रचना गुप्ता की हिंदी की पुस्तक विद्यालय में गुम हो गई है और वह विद्यालय के सूचना पट्ट पर सूचना लगाना चाहती है, इस संबंध में एक सूचना तैयार कीजिए।

4 कक्षा में दी गई पत्र की वर्कशीट में दिए गए सभी औपचारिक पत्रों का नोटबुक में अभ्यास करिए।

संस्कृत

1 रचनात्मक कार्य के अन्तर्गत मञ्जूषा सहित किन्हीं दो चित्रों को लेकर 5-5 वाक्यों का निर्माण कीजिए |

2 अपठित अवबोधनम् के अन्तर्गत दो अपठित गद्यांशों को लेकर प्रश्नों के उत्तर कीजिए |

3 'संधि' के नियमों को दो-दो उदाहरण देते हुए स्पष्ट कीजिए |

नोट:- यह सभी कार्य A4 आकार की शीट पर कीजिये |

SCIENCE

The worksheets given below need to be done in the respective subject notebooks. Please refer to the worksheets that follow

a) Worksheet -1 -Chemistry

b) Worksheet -2- Physics

c) Worksheet -3- Biology

WORKSHEET 1- CHEMISTRY

Do the following questions in your chemistry notebook.

Q1. A compound 'X' is used for drinking, has pH=7. Its acidified solution undergoes decomposition in the presence of electricity to produce gases 'Y' and 'Z'. The volume of 'Y' is double than 'Z', 'Y' is highly combustible whereas 'Z' is a supporter of combustion. Identify 'X' 'Y' and 'Z' and write the chemical reactions involved.

Q2. Bhawna took a pale green substance 'A' in a test tube and heated it on the flame of a burner. A brown colour residue 'B' was formed along with evolution of two gases with burning smell of sulphur. Identify 'A' and 'B'. Write the chemical equation involved.

Q3. A student took 2-3 g of a substance 'X' in a glass beaker & poured water over it slowly. He observed bubbles along with hissing noise. The beaker becomes quite hot. Identify 'X'. What type of reaction is it?

Q4. A student has mixed the solution of Lead (II) nitrate and Potassium iodide.

a. What was the colour of the precipitate formed? Can you name of the compound precipitated?

b. Write the balanced chemical equation for the reaction.

c. What type of reaction is it?

Q5. A student burnt a metal 'A' found in the form of ribbon. The ribbon burnt with a dazzling flame and a white powder 'B' is formed which is basic in nature. Identify 'A' and 'B'. Write the balanced chemical equation.

Q6. Asha has been collecting silver coins & copper coins. One day she observed a black coating on silver coins and green coating on copper coins. Which chemical phenomenon is responsible for these coatings? Write the chemical name for the Black and Green coatings?

Q7. A few drops of Phenolphthalein indicator were added to an unknown solution 'A'. It acquired pink colour. Now another unknown solution 'B' was added to it drop by drop and the solution become colourless. Predict the nature of 'A' and 'B'.

Q8. What is the difference between-

(a) Combination & Decomposition reaction

(b) Displacement & double displacement reaction

Q9. Balance the following chemical equations:

(i) $\text{Cu} + \text{HNO}_3 \rightarrow \text{Cu}(\text{NO}_3)_2 + \text{NO} + \text{H}_2\text{O}$

(ii) $\text{Zn} + \text{H}_2\text{SO}_4 \rightarrow \text{ZnSO}_4 + \text{H}_2\text{O}$

Q10. Translate the following statement into balanced chemical equation:

- (i) Ferrous sulphate on heating gives sulphur dioxide, sulphur trioxide and ferric oxide
- (ii) When dilute hydrochloric acid is added to magnesium carbonate, we get magnesium chloride, carbon dioxide and water
- (iii) Nitric acid reacts with calcium hydroxide and forms calcium nitrate and water
- (iv) Sodium bicarbonate decomposes to give sodium carbonate, carbon dioxide and water
- (v) Sodium chloride reacts with water to give sodium hydroxide, hydrogen gas and chlorine molecule.
- (vi) Aluminium metal reacts with sulphuric acid to give Aluminium sulphate and Hydrogen gas.

Q11. Select combination reaction, decomposition reaction and displacement reaction from the following chemical reaction:

- (i) $C + O_2 \rightarrow CO_2$
- (ii) $NaBr + AgNO_3 \rightarrow AgBr + NaNO_3$
- (iii) $CaCO_3 \rightarrow CaO + CO_2$
- (iv) $H_2S + Cl_2 \rightarrow 2HCl + S$

Q12. What change in colour is observed when white silver chloride is left exposed to sunlight? State the type of chemical reaction in this change. Also write the equation.

Q13. Solid CaO was taken in a container and water was added slowly to it

- a) State the two observations made in the experiment.
- b) Write the name and chemical formula of the product formed.

Q14. What changes in the colour of iron nails and copper sulphate solutions do you observe after keeping the iron nails dipped in copper sulphate solution for about 30 minutes?

Q15. (a) What is corrosion? Give three examples of corrosion. How can we prevent it?
 (b) What is rancidity? Write different methods of preventing rancidity.

Q16. What is oxidation reaction? Give an example of oxidation reaction. Is oxidation an exothermic or endothermic reaction?

Q17. An aqueous solution of metal nitrate 'P' reacts with sodium bromide solution to form a yellow precipitate of compound 'Q' which is used in photography. 'Q' on exposure to sunlight undergoes a decomposition reaction to form the metal present in 'P' along with reddish brown gas. Identify 'P' & 'Q'. Write the chemical reaction & type of chemical reaction.

Q18. A water insoluble substance 'X' on reacting with dilute H₂SO₄ released a colourless and odourless gas which is accompanied by brisk effervescence. When the gas was passed through water, the solution obtained turned blue litmus red. On bubbling the gas through lime water, it initially became milky and the milky appearance

disappeared when the gas was passed in excess. Identify the substance 'X' and write the chemical equations of the reaction involved.

Q19. The three test tubes A, B and C contain iron nails. In A there is water covered with oil. B contains iron nails in water present in half of the test tube. C contains iron nails, anhydrous calcium chloride and no water. In which test tube rusting will take place and why?

Q20. A grey coloured metal 'X' is used in making dry cell. It is also used for coating iron metal to prevent it from rusting. When granules of 'X' are added to blue solution of compound of reddish brown metal 'Y' the colour of solution gets discharged and metal 'Y' is formed. Identify X and Y. Write the chemical reaction and identify the type of reaction.

WORKSHEET 2-PHYSICS

Dear students please complete the following in a separate notebook for physics summer holiday assignment-

1. NCERT chapter-end questions from chapter Electricity.
2. Last year's Board Examination question paper from the chapter Electricity (Uploaded on the school M

WORKSHEET 3 BIOLOGY

Q1. "All plants give out oxygen during day and carbon dioxide during night". Do you agree with this statement? Give reason.

Q2. Why do fishes die when taken out of water?

Q3. Is 'nutrition' a necessity for an organism? Discuss.

Q4. What would happen if green plants disappear from earth?

Q5. What are the adaptations of leaf for photosynthesis?

Q6. Why is small intestine in herbivores longer than in carnivores?

Q7. What is the significance of emulsification of fats?

Q9. Why does absorption of digested food occur mainly in the small intestine?

Q10. What is the advantage of having four chambered heart?

Q11. What is common for cuscuta, ticks and leeches?

Q12. Name the energy currency in the living organisms. When and where is it produced?

Q13. What are the functions of gastric glands present in the wall of the stomach?

Q14. Name the correct substrates for the following enzymes

(a) Trypsin (b) Amylase (c) Pepsin (d) Lipase

Q15. What will happen if platelets were absent in the blood?

Q16. Plants have low energy needs as compared to animals. Explain.

Q17. Why and how does water enter continuously into the root xylem?

Q18. With the help of diagram describe the alimentary canal of man.

Q19. Explain the process of nutrition in Amoeba.

Q20. a) Differentiate between pepsin and amylase based on the organ where they are produced and their action.

b) Mention any two structural modification in the small intestine, which helps in absorption of digested food.

Q21. a) Draw a diagram of human excretory system and label kidney, ureters, urinary bladder and renal artery on it.

b) State in brief the function of i) renal artery ii) kidney iii) ureter iv) urinary bladder

Q22. With the help of a labeled diagram, explain the functioning of human respiratory system.

Q23. a) List in tabular form the differences between aerobic respiration and anaerobic respiration. (any two points)

b) Why do we feel cramps in our muscles during sudden physical activity?

c) How is oxygen transported in our body which is taken from outside?

Q24. Draw well labelled diagram of human heart.

Q25. Name the following:

(1) Origin of reflex action

(2) Receptor located in the tongue to detect taste

(3) Receptor located in the nostrils to detect smell

(4) This neuron transmits information from the receptor towards the CNS

(5) This neuron transmits impulses from CNS to an effector.

(6) Spontaneous involuntary responses controlled by spinal cord which is a path followed by an impulse in a reflex action.

(7) Largest part of the brain

Q26. What is the difference between afferent neurons and efferent neurons?

Q27. Draw well labelled diagram of a) neuron b) human brain c) reflex arc

SOCIAL SCIENCE

Dear Students you have to prepare a project on Gender Inequality

Mention different aspects of life in which women are discriminated or disadvantaged in India by covering the following topics-

Female feticide

Literacy rate among women

Sexual division of labour in families

Dowry

Domestic Violence

Sexual Violence against women

Sexual harassment of women at work places

Status of women's representation in India's legislative bodies

Each student will prepare and submit her/his project report after the summer vacation.

The Project Report should be handwritten by the students themselves

. The project report will be presented in a neatly bound simple folder.

The project report will be developed in this sequence-

Cover page showing project title, student information, school and year

List of contents

Acknowledgements and preface (acknowledging the institution, offices and libraries visited and person who have helped).

Bibliography

All the photographs and sketches should be labeled and related to the theme.

MATHEMATICS

Dear students

Summer vacation is here and being a board student all of you need to use this time to hone your skills.

Solve the following exercises from Ncert Exemplar text book in your practice register.

1.Coordinate geometry

Exercise 7.1,7.2,7.3,7.4

2. Quadratic equations

Exercise 4.1,4.2,4.3,4.4

FRENCH

1 Revise chapter 1,2 and 3 for PA-1.

2Ecrivez une lettre a vote ami(e) en decrivant un endroit que vous avez visite pendant les vacances.(80-100 mots).

3.Ecrivez une lettre a votre ami(e)qui est au chomage en lui disant de l'annonce que vous avez lu recemment dans le journal.

4.Complete grammar exercises of chapter 1 2 and 3 in setrite book.

ART

1. Students have to make 3 watercolor composition.
2. Students have to make 5 still life composition.
3. Students have to make 5 favourite cartoon character.

HAPPY HOLIDAYS